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Spring 2021

CHEM 391-147: Research and Independent Study

Yongick Kim

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Chemistry: *Spring 2021 Course Syllabus*

[NJIT Academic Integrity Code](#): All Students should be aware that the Department of Chemistry & Environmental Science (CES) takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the Instructor.

COURSE INFORMATION

Course Description: In this course, students will perform an original research project under the supervision of Dr. Yongick Kim. With the purified proteins, the in vitro oscillator of the cyanobacterial circadian clock will be reconstituted to study the reaction mechanism of KaiC phosphorylation. The result from the research will be presented in the research group at the end of the semester.

Number of Credits: 3

Prerequisites: CHEM 475 – Biochemistry Lab, The University Lab Safety Training, The University Biosafety Training

Course-Section and Instructors

Course-Section	Instructor
CHEM 391 - 147	Yongick Kim, PhD

Office Hours for All Chemistry & Environmental Science Instructors: N / A

Required Textbook: N/A

Title	
Author	
Edition	
Publisher	
ISBN #	

University-wide Withdrawal Date: The last day to withdraw with a W is Monday, April 5, 2021. It will be strictly enforced.

Learning Outcomes: Students can present their research in the conference and publish a paper.

POLICIES

All CES students must familiarize themselves with, and adhere to, all official university-wide student policies. CES takes these policies very seriously and enforces them strictly.

Grading Policy: The final grade in this course will be determined as follows:

Homework	30%
Group meeting	30%
Midterm Exam I	N/A
Midterm Exam II	N/A
Final Exam	40%

Your final letter grade in this course will be based on the following tentative curve:

A	90 - 100	C	70 - 74
B+	85 - 89	D	60 - 69
B	80 - 84	F	0 - 59
C+	75 - 79		

Attendance Policy: Students must work in the lab minimum 6 hours per week and attend the group meeting.

Homework Policy: Homework is an expectation of the course. Assigned research papers will be issued during the group meeting.

Exams: There will be two midterm exams held in class during the semester and one comprehensive final exam. The following exam periods are tentative and therefore possibly subject to change:

Midterm Exam I	N/A
Midterm Exam II	N/A
Final Exam Period	May 7 - 13, 2021

The final exam will **20-30 min power point presentation with 1) Background, 2) Experimental results, and 3) Discussion.**

Makeup Exam Policy: There will normally be **NO MAKE-UP QUIZZES OR EXAMS** during the semester. In the event that a student has a legitimate reason for missing a quiz or exam, the student should contact the Dean of Students office and present written verifiable proof of the reason for missing the exam, e.g., a doctor's note, police report, court notice, etc. clearly stating the date AND time of the mitigating problem. The student must also notify the CES Department Office/Instructor that the exam will be missed so that appropriate steps can be taken to make up the grade.

Cellular Phones: All cellular phones and other electronic devices must be switched off during all class times. Such devices must be stowed in bags during exams or quizzes.

ADDITIONAL RESOURCES

Chemistry Tutoring Center: Located in the Central King Building, Lower Level, Rm. G12. Hours of operation are Monday - Friday 10:00 am - 6:00 pm. For further information please click [here](#).

Accommodation of Disabilities: Office of Accessibility Resources and Services (*formerly known as Disability Support Services*) offers long term and temporary accommodations for undergraduate, graduate and visiting students at NJIT.

If you are in need of accommodations due to a disability please contact Chantonette Lyles, Associate Director at the Office of Accessibility Resources and Services at **973-596-5417** or via email at lyles@njit.edu. The office is located in Fenster Hall Room 260. A Letter of Accommodation Eligibility from the Office of Accessibility Resources Services office authorizing your accommodations will be required.

For further information regarding self-identification, the submission of medical documentation and additional support services provided please visit the Accessibility Resources and Services (OARS) website at:

- <http://www5.njit.edu/studentsuccess/disability-support-services/>

Course Outline

Lecture	Section	Topic	Assignment
1		Research	
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Updated by Genti Price - August, 2019
Department of Chemistry & Environmental Sciences (CES)
Course Syllabus, Fall 2019
